

Intel® Rapid Storage Technology (Intel® RST) 16.10700.1016.0-(HSA_only updated) release

9 October 2018

Intel Confidential

DISCLAIMER: Information in this document is provided in connection with Intel products. No license, express or implied, by estoppels or otherwise, to any intellectual property rights is granted by this document. Except as provided in Intel's Terms and Conditions of Sale for such products, Intel assumes no liability whatsoever, and Intel disclaims any express or implied warranty relating to sale and/or use of Intel products, including liability or warranties relating to fitness for a particular purpose, merchantability or infringement of any patent, copyright or other intellectual property right. Intel products are not intended for use in medical, lifesaving, or life-sustaining applications.

Intel may make changes to specifications and product descriptions at any time, without notice.

Contact your local Intel sales office or your distributor to obtain the latest specifications before placing your product order.

* Other names and brands may be claimed as the property of others. Copyright
© Intel Corporation 2000-2018

Supported Operating Systems[#]

Microsoft Windows 10 Redstone4 x64*

Microsoft Windows Server 2016 x64 Edition*

- The OS support list referred here is a high-level OS support list for this release. However support varies by platform. Please refer the platform POR for the respective platform OS support.

Revision History

Date	Driver Revision	Build Number
9 October 2018	16.10700.1016.0-HSA_updated	1016
26 September 2018	16.7.0.1009-InstallerUpdated PV	1009

Intel Confidential

Notes:

1. Known Issue is defined as a potential Intel® RST issue that has been replicated internally by the Intel® RST team but has not been root caused to be an Intel® RST defect.
2. This release only contains the updated RS4 Intel® HSA app and the version is 16.10700.1016.0. Recommended to use this in replacement of the previous HSA version released i.e 16.10700.1003.0, with 16.7 Intel® RST releases.
3. This build contains an updated HSA version 16.10700.1016.0 to replace an older HSA version 16.10700.1003.0. New and updated HSA is recommended to use by all customers, because of the licensing issues referred below:

Issue details:

- End user license agreement is missing.
 - Display of licenses for 3rd party SW components is missing
 - Language support missing for certain languages
4. Intel® RST HSA App is available in the Microsoft store with the below token link for customer testing (Restricted under NDA).
<http://go.microsoft.com/fwlink/?LinkId=532540&mstoken=RHJMR-63YJV-KD4QW-PDMGM-GGWJZ>
 5. For more information on these features, please refer to RST_OEM Tech Guide 16.7-rev.1.0.pdf or later.

Supported Hardware

Initial RST Release Version		Chipset Name	Platform / PCH / (Segment)	PCH SKU Details
16.x		Intel® 300/240 Series Chipset Family	Cannon Lake (CNL)/Coffee Lake (CFL) PCH: Cannon Point-H (CNP-H) (DT, HEDT)	- H310 ^(A) - B360 - H370 - Z390 - Q370 - H310C
			CNL/CFL PCH: CNP-H (WS)	- C246
			CNL/CFL PCH: CNP-H (Mobile Halo)	- QM370 - HM370 - CM246
		Intel® 8th Generation Core Processor Family Platform I/O SATA AHCI/RAID Controller	CNL PCH: CNP-LP (Mobile LP)	- Premium-U - Base-U ^(A)
N - 1				
	15.8 / 15.9	Intel® 200 Series Chipset Family	Coffee Lake (CFL-S, 8+2) PCH: Kaby Point (KBP-H) (Desktop)	- Z370***
		Intel® 200 Series Chipset Family	Basin Falls (w/ KBL-X, SKL-X CPU) PCH: KBP-H (HEDT)	- X299
	15.7	Intel® 8th Generation Core Processor Family Platform I/O SATA AHCI/RAID Controller	Kaby Lake Refresh (KBL-R) PCH: SPT-LP (Mobile-LP)	- Base-U - Premium-U - Premium-Y
		Intel® 100/C230 Series Chipset Family	Greenlow-Refresh (w/ KBL CPU) PCH: SPT PCH-H (WS)	- C236
	15.5	Intel® 200 Series Chipset Family	KBL PCH: KBP-H (Desktop)	- Q250 ^(O) - B250 ^(O) - Z270 - H270 - Q270
			(w/ KBL CPU) PCH: SPT-H (Mobile Halo)	- HM175 - QM175 - CM238
	15.2	Intel® 7th Generation Core Processor Family Platform I/O SATA AHCI/RAID Controller	(w/ KBL CPU) PCH: SPT-LP (Mobile-LP)	- Base-U ^(A) - Premium-U - Premium-Y

^(A) This base SKU of the chipset supports AHCI mode only

^(O) This base SKU of the chipset supports both AHCI and Intel® Optane™ memory modes only (nonRAID)

^{SX} This SKU is supported with SKL-X CPU only

Terminology

Common Terms and Acronyms	Definition
AEN	Asynchronous Event Notification
AHCI	Advanced Host Controller Interface
ATA	Advanced Technology Attachment
ATAPI	Advanced Technology Attachment Packet Interface
BIOS	Basic Input / Output System

BUS PROTOCOL GROUP	<p>A bus protocol group represents a set of bus protocols with similar performance characteristics. Bus Protocol Groups are listed here in descending order of speed:</p> <p>1- PCIe*</p> <p>2- SATA</p>
Chipset	A term used to define a collection of The PNHCI components required to make a PC function.
CSMI	OEM Common Storage Management Interface for reporting RAID configurations and SMP, SSP, STP pass through.
DEVSLP	Serial ATA Device Sleep
DMA	Direct Memory Access
DOS	Disk Operating System
DIPM	Device Initiated Power Management
Disk's Write Cache	A memory device within a hard drive, which is allocated for the temporary storage of data before that data is copied to its permanent storage location.
GB	Giga-byte = 1024 ³ bytes
HDD	Hard Disk Drive
HIPM	Host Initiated Power Management
Hot Plug	A term used to describe the removal or insertion of a SATA disk while the system is powered on.
HSA	Hardware Supported App
ICH	Input / Output Controller Hub
InstantGo*	Microsoft Windows* 8.1 connected standby low-power state that features extremely low power consumption while maintaining Internet connectivity.
KB	Kilo-byte = 1024bytes

S.M.A.R.T.	Self-Monitoring, Analysis and Reporting Technology: an open standard for developing hard drives and software systems that automatically monitors a hard drive's health and reports potential problems.
SED	Self-Encrypting Drive
SRT (EOL)	Intel® Smart Response Technology. Intel® RST's premium feature to use caching technology that enables caching of a device or volume using a faster device. Note: This feature has EOL'd and is no longer supported beginning with the Intel(R) RST 16.0 product line
SSD	Solid State Drive – non-volatile memory used as storage media
SSHD	Solid-State Hybrid Drive
TB	Tera-byte = 1024 ⁴ bytes
UEFI	UEFI pre-OS driver
UI	User Interface
VC	Validation Candidate
ZPODD	Zero Power Optical Disk Drive